

## Abstract

An object of the invention is to provide a bed which can surely detect the positional shift and heartbeat vibration of a bedded person while suppressing the increase of the cost and the degradation of the comfortability of a bed, and to provide a bed and an  
5 in-bed state detection method which can prevent the undesirable caught at the time of elevating the bed.

In order to detect the shift of a bedded person, a ratio of intensities between output signals from first pressure sensitive sensor 21 and a second pressure sensitive sensor 22 each having a cable shape is obtained. These sensors are disposed along the lying  
10 direction at the both end sides of a bedding surface 15a on which a bedded person lies, respectively. When the ratio is in a range of a predetermined shift state set in advance, it is determined that the positional shift of a bedded person on the bedding surface 15a occurs. Further, a low-repulsion urethane layer is provided within a bed pad thereby to detect the heartbeat vibration. Furthermore, the elevational driving of the panel portion is controlled  
15 in accordance with the output form the pressure sensitive sensor disposed on a bed.